Peak-valley price difference energy storage profit

Should residential Peak-Valley pricing policies be optimized?
The PVP policy needs to be optimizedfrom the price and time period division. In order to deal with the rapid growth in residential electricity consumption,residential peak-valley pricing (PVP) policies have been implemented in 12 provinces in China. However,being inappropriate,the residential PVP policies have delivered no significant results.

Are electricity pricing policies effective in peak shaving and valley filling?
The focus of power companies is on the variation in the effectiveness of electricity pricing policies in peak shaving and valley filling (Fig. 14). Overall,the current PVP policies in 11 provinces except Gansu are ineffective in peak shaving but are somewhat effective in valley filling.

Does a PvP policy reduce peak power usage?
An electricity demand model based on household characteristic is presented. The peak-shaving effect of the current PVP policy in 11 provinces is less than 3%. Optimized PVP can significantly reduce peak power usageand increase benefits. The PVP policy needs to be optimized from the price and time period division.

Are PvP policies effective in peak shaving and valley filling?
Overall,the current PVP policies in 11 provinces except Gansu are ineffective in peak shaving but are somewhat effective in valley filling. In comparison,the optimized PVP policies are highly effective in peak shaving and valley filling. This is because the optimized PVP policy increases the electricity price during peak periods.

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